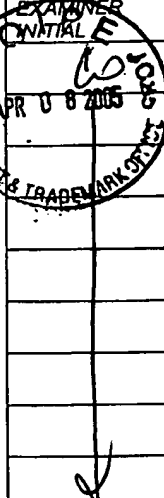


FORM PTO-1449

FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1744.0710005APPLICATION NO.  
09/590,955INVENTORS  
Johnson *et al.*FILING DATE  
June 9, 2000ART UNIT  
2387

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA59	6,813,485 B2	11/2004	Sorrells <i>et al.</i>			
	AB59	5,410,270	04/1995	Rybicki <i>et al.</i>			
	AC59	6,509,777 B2	01/2003	Razavi <i>et al.</i>			
	AD59	5,982,329	11/1999	Pittman <i>et al.</i>			
	AE59	6,208,636 B1	03/2001	Tawil <i>et al.</i>			
	AF59	6,836,650 B2	12/2004	Sorrells <i>et al.</i>			
	AG59	5,844,868	12/1998	Takahashi <i>et al.</i>			
	AH59	6,385,439 B1	05/2002	Hellberg			
	AI59	6,741,139 B2	05/2004	Pleasant <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
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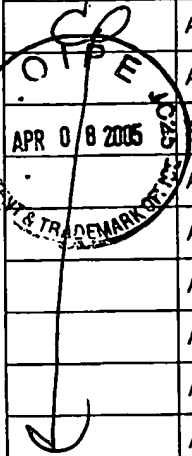
EXAMINER *Curtis Adom*DATE CONSIDERED *4/22/05*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA60	6,823,178 B2	11/2004	Pleasant <i>et al.</i>			
	AB60	6,850,742 B2	02/2005	Fayyaz			
	AC60	6,853,690 B1	02/2005	Sorrells <i>et al.</i>			
	AD60	4,789,837	12/1988	Ridgers			
	AE60	5,634,207	05/1997	Yamaji <i>et al.</i>			
	AF60	5,642,071	06/1997	Sevenhans <i>et al.</i>			
	AG60	6,211,718 B1	04/2001	Souetinov			
	AH60	6,212,369 B1	04/2001	Avasarala			
	AI60	6,308,058 B1	10/2001	Souetinov <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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EXAMINER INITIAL	DOC. REF.	CITATION
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
OHP APR 8 8 2005 PATENT & TRADEMARK OFFICE	AA61	6,633,194 B2	10/2003	Amborg <i>et al.</i>			
	AB61	2001/0036818 A1	11/2001	Dobrovoly			
	AC61	6,873,836 B1	03/2005	Sorrells <i>et al.</i>			
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## FOREIGN PATENT DOCUMENTS

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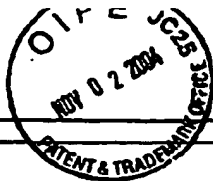
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FORM PTO-1449

FOURTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1744.0710005APPLICATION NO.  
09/590,955INVENTORS  
JOHNSON *et al.*FILING DATE  
June 9, 2000ART UNIT  
2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
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CO	AH56	4,441,080	04/1984	Saari	—	—	
CO	AI56	4,873,492	10/1989	Myer	—	—	

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	AL						Yes No
	AM						Yes No

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	AN		
	AO		
CO	AP	59	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 <sup>nd</sup> Edition, McGraw-Hill, Inc., pp. 41-45 (1977).
	AQ		
	AR		

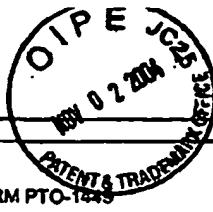
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DATE CONSIDERED

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FOURTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0710005	APPLICATION NO. 09/590,955
INVENTORS JOHNSON <i>et al.</i>	
FILING DATE June 9, 2000	ART UNIT 2634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CP	AA58	6,084,465	07/2000	Dasgupta	—	—	
	AB58	6,204,789 B1	03/2001	Nagata	—	—	
	AC58	6,084,054	05/2000	Waczynski <i>et al.</i>	—	—	
	AD58	5,218,582	08/1993	Basehore <i>et al.</i>	—	—	
	AE58	5,239,496	08/1993	Vancraeynest	—	—	
	AF58	5,896,304	04/1999	Tiemann <i>et al.</i>	—	—	
	AG58	6,005,903	12/1999	Mendelovicz	—	—	
	AH58	5,834,979	11/1998	Yatsuka	—	—	
	AI58	6,798,351 B1	09/2004	Sorrells <i>et al.</i>	—	—	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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FOURTH SUPPLEMENTAL  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CP	AA57	5,697,074	12/1997	Makikallio <i>et al.</i>	—	—	
	AB57	5,784,689	07/1998	Kobayashi	—	—	
	AC57	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>	—	—	
	AD57	6,690,232 B2	02/2004	Ueno <i>et al.</i>	—	—	
	AE57	5,636,140	06/1997	Lee <i>et al.</i>	—	—	
	AF57	6,366,622 B1	04/2002	Brown <i>et al.</i>	—	—	
	AG57	6,600,795 B1	07/2003	Ohta <i>et al.</i>	—	—	
	AH57	4,250,458	02/1981	Richmond <i>et al.</i>	—	—	
	AI57	5,760,629	06/1998	Urabe <i>et al.</i>	—	—	

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
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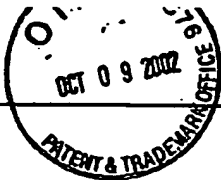
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FORM PTO-1449

ATTY. DOCKET NO.  
1744.0710005APPLICATION NO.  
09/590,955APPLICANT  
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2634

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CO	AC49	6,330,244 B1	12/2001	Swartz et al.			01/16/1998
	AD49	4,384,357	05/1983	deBuda et al.			
	AE49	4,470,145	09/1984	Williams			
	AF49	5,600,680	02/1997	Mishima et al.			
	AG49	5,606,731	02/1997	Pace et al.			
	AH49	5,870,670	02/1999	Ripley et al.			
	AI49	6,314,279 B1	11/2001	Mohindra			08/29/1998

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
CO	AL19	EP 0 254 844 A2	02/1988	EP	H03D	7/00	N/A
CO	AM19	EP 0 632 577 A1	01/1995	EP	H03D	7/16	N/A

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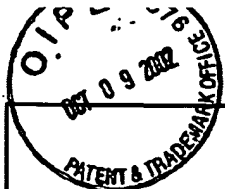
CO	AO	56	Translation of Japanese Patent Publication No. JP 60-130203, 3 pages.
CO	AP	56	Razavi, B., "A 900-MHz/1.8-GHz CMOS Transmitter for Dual-Band Applications, <i>Symposium on VLSI Circuits Digest of Technical Papers</i> , IEEE, pp. 128-131 (1998).
CO	AQ	56	Ritter, G.M., "SDA, A New Solution for Transceivers," <i>16th European Microwave Conference</i> , Microwave Exhibitions and Publishers, pp. 729-733 (September 8, 1986).
CO	AR	56	DIALOG File 351 (Derwent WPI) English Language Patent Abstract for FR 2 669 787, 1 page (May 29, 1992-Date of publication of application).

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FORM PTO-1449

ATTY. DOCKET NO.  
1744.0710005APPLICATION NO.  
09/590,955APPLICANT  
Johnson et al.FILING DATE  
June 9, 2000GROUP  
2634SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CO	AA50	5,633,815	05/1997	Young	—	—	
CO	AB50	09/796,824		Johnson et al.	—	—	03/02/01

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
CO	AJ20	JP 60-130203	07/1985	JP	H03D	7/00	No
CO	AK20	DE 196 27 640 A1	01/1997	DE	H03D	7/12	No
CO	AL20	EP 0 087 336 A1	08/1983	EP	H03D	7/12	No
CO	AM20	EP 0 087 336 B1	07/1986	EP	H03D	7/12	No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)


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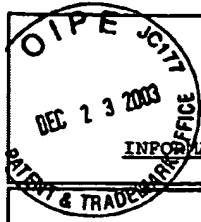
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**SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.  
1744.0710005

APPLICATION NO.  
09/590,955

APPLICANTS  
Johnson et al.

FILING DATE  
June 9, 2000

GROUP  
2634

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC50	3,246,084	04/1966	Kryter			
	AD50	3,702,440	11/1972	Moore			
	AE50	3,767,984	10/1973	Shinoda et al.			
	AF50	3,852,530	12/1974	Shen			
	AG50	4,220,977	09/1980	Yamañaka			
	AH50	5,016,242	05/1991	Tang			
	AI50	5,937,013	08/1999	Lam et al.			

**FOREIGN PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AM21	JP 61-30821	02/1986	JP			No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AN	57	Akos, D.M. et al., "Direct Bandpass Sampling of Multiple Distinct RF Signals," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 47, No. 7, pp. 983-988 (July 1999).
	AO	57	Patel, M. et al., "Bandpass Sampling for Software Radio Receivers, and the Effect of Oversampling on Aperture Jitter," <i>VTC 2002, IEEE</i> , pp. 1901-1905 (2002).
	AP	57	English-language Abstract of Japanese Patent Publication No. 61-030821, from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , 2 Pages (February 13, 1986 - Date of publication of application).
	AQ	57	English-language Abstract of Japanese Patent Publication No. 05-327356, from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , 2 Pages (December 10, 1993 - Date of publication of application).
	AR	57	Taylor, D., "A Low-noise, High-performance Zero IF Quadrature Detector/Preamplifier," <i>RF Design</i> , Primedia Business Magazines & Media, Inc., pp. 58, 60, 62 and 69 (March 2003).

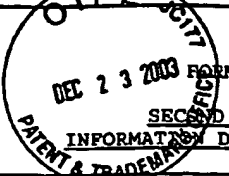
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DATE CONSIDERED

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	APPLICANTS Johnson et al.	
	FILING DATE June 9, 2000	GROUP 2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CO ↓	AA51	6,014,551	01/2000	Pesola et al.			
	AB51	6,073,001	06/2000	Sokoler			
	AC51	6,085,073	07/2000	Palermo et al.			
	AD51	6,400,963 B1	06/2002	Glöckler et al.			
	AE51	6,230,000 B1	05/2001	Taylor			
	AF51	5,483,695	01/1996	Pardoen			
	AG51	6,542,722 B1	04/2003	Sorrells et al.			
	AH51	6,560,301 B1	05/2003	Cook et al.			
	AI51	6,098,046	08/2000	Cooper et al.			

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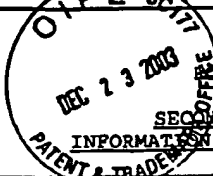
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CO ↓	AJ22	JP 5-327356	12/1993	JP			No
	AK22	EP 0 643 477 A2 & A3	03/1995	EP			N/A
	AL22	EP 0 877 476 A1	11/1998	EP			N/A
	AM22	EP 0 977 351 A1	02/2000	EP			N/A

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CO ↓	AN	58	Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
	AO	58	Simoni, A. et al., "A Digital Camera for Machine Vision," <i>20th International Conference on Industrial Electronics, Control and Instrumentation</i> , IEEE, pp. 879-883 (September 1994).
	AP	58	Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," <i>Electronics &amp; Communication Engineering Journal</i> , IEEE, pp. 37-47 (February 1998).
	AQ	58	Rudell, J.C. et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).
	AR	58	English-language Abstract of Japanese Patent Publication No. 09-036664, from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , 2 Pages (February 7, 1997 - Date of publication of application).

EXAMINER <i>Curtis Olson</i>	DATE CONSIDERED 4/15/04
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	ATTY. DOCKET NO. 1744.0710005		APPLICATION NO. 09/590,955
	APPLICANTS Johnson et al.		
	FILING DATE June 9, 2000	GROUP 2634	

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CP	AA52	5,564,097	10/1996	Swanke	—	—	
	AB52	5,898,912	04/1999	Heck <i>et al.</i>	—	—	
	AC52	4,660,164	04/1987	Leibowitz	—	—	
	AD52	6,580,902 B1	06/2003	Sorrells <i>et al.</i>	—	—	
	AE52	4,857,928	08/1989	Gailus <i>et al.</i>	—	—	
	AF52	5,389,839	02/1995	Heck	—	—	
	AG52	5,471,665	11/1995	Pace <i>et al.</i>	—	—	
	AH52	6,327,313 B1	12/2001	Traylor <i>et al.</i>	—	—	
	AI52	5,751,154	05/1998	Tsugal	—	—	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
✓	AJ23	WO 00/31659 A1	06/2000	PCT	—	—	N/A
	AK23	JP 9-36664	02/1997	JP	—	—	No
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C-2	AN	59	Simoni, A. et al., "A Single-Chip Optical Sensor with Analog Memory for Motion Detection," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 30, No. 7, pp. 800-806 (July 1995).
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EXAMINER	<i>Curtis Od</i>	DATE CONSIDERED	<i>4/15/04</i>
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CP ↓	AA53	5,793,817	08/1998	Wilson	—	—	
	AB53	6,225,848 B1	05/2001	Tilley et al.	—	—	
	AC53	6,313,685 B1	11/2001	Rabii	—	—	
	AD53	3,614,627	10/1971	Runyan et al.	—	—	
	AE53	3,940,697	02/1976	Morgan	—	—	
	AF53	4,016,366	04/1977	Kurata	—	—	
	AG53	4,045,740	08/1977	Baker	—	—	
	AH53	4,115,737	09/1978	Hongu et al.	—	—	
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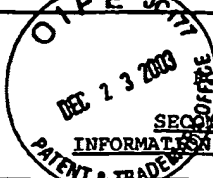
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EXAMINER <i>Curtis Odo</i>	DATE CONSIDERED <i>4/15/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

 FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1744.0710005	APPLICATION NO. 09/590,955
	APPLICANTS Johnson et al.	
	FILING DATE June 9, 2000	GROUP 2634

## U.S. PATENT DOCUMENTS


EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		AA54	5,790,587	08/1998	Smith <i>et al.</i>		
		AB54	4,740,675	04/1988	Brosnan <i>et al.</i>		
		AC54	5,483,600	01/1996	Werrbach		
		AD54	6,011,435	01/2000	Takeyabu <i>et al.</i>		
		AE54	6,321,073 B1	11/2001	Luz <i>et al.</i>		
		AF54	6,026,286	02/2000	Long		
		AG54	6,178,319 B1	01/2001	Kashima		
		AH54	6,634,555 B1	10/2003	Sorrells <i>et al.</i>		
		AI54	3,736,513	05/1973	Wilson		

## FOREIGN PATENT DOCUMENTS

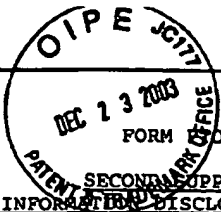
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER 	DATE CONSIDERED 4/15/04
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<b>SECONDARY SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 1744.0710005	APPLICATION NO. 09/590,955
	APPLICANTS Johnson et al.	
	FILING DATE June 9, 2000	GROUP 2634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CW	AA55	4,488,119	12/1984	Marshall			
	AB55	4,633,510	12/1986	Suzuki <i>et al.</i>			
	AC55	5,369,789	11/1994	Kosugi <i>et al.</i>			
	AD55	5,416,449	05/1995	Joshi			
	AE55	5,438,329	08/1995	Gastouniotis <i>et al.</i>			
	AF55	6,611,569 B1	08/2003	Schier <i>et al.</i>			
	AG55	6,647,250 B1	11/2003	Bultman <i>et al.</i>			
	AH55	5,682,099	10/1997	Thompson <i>et al.</i>			
	AI55	6,094,084	07/2000	Abou-Allam <i>et al.</i>			

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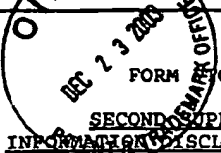
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER Curtis Oden	DATE CONSIDERED 4/15/04
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 <p>FORM NO-1449</p> <p>SECOND SUPPLEMENTAL INFORMATIONAL DISCLOSURE STATEMENT</p>	ATTY. DOCKET NO. 1744.0710005	APPLICATION NO. 09/590,955
	APPLICANTS Johnson et al.	
	FILING DATE June 9, 2000	GROUP 2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CP	AA56	6,067,329	05/2000	Kato et al.			
	AB56	6,516,185 B1	02/2003	MacNally			
	AC56	6,608,647 B1	08/2003	King			
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	AE						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER <i>Curtis Odom</i>	DATE CONSIDERED <i>4/15/04</i>
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FORM PTO-1449

THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1744.0710005Page 1 of 1  
APPLICATION NO.  
09/590,955INVENTORS  
JOHNSON *et al.*FILING DATE  
June 9, 2000ART UNIT  
2634

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
W	AD56	5,955,992	09/1999	Shattil			
W	AE56	5,999,561	12/1999	Naden <i>et al.</i>			
	AF56	6,686,879 B2	02/2004	Shattil			
U	AG56	5,345,239	09/1994	Madni <i>et al.</i>			
	AH						
	AI						

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
W	AL23	DE 196 48 915 A1	06/1998	DE			Yes (Doc. AO59)
	AM						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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W	AO	59	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.
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EXAMINER

Curtis Oden

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